

Natália Bernardi Videira, PhD, ERT

Toxicologist

Executive Summary:

- Biotechnologist with solid background with *in vitro* testing, with +10 years of bench experience.
- + 8 years of experience in R&D and innovation in biotechnology in human health
- Scientific writing of reports, projects, papers, reviews, book chapters, scientific dissemination.
- Member of the Brazilian Toxicology Society (SBTox) since Jul/2022
- Member of the Portuguese Toxicology Association (AP Tox) since 2023
- English – Fluent, Portuguese – Native, French – intermediate, Spanish – Basic.
- European Register of Toxicologist (ERT) Certified

Education:

08/2020 – 12/2020	Specialization in Clinical Research , Invitare (160h), Brazil
02/2014 – 07/2018	PhD in Bioscience , State University of Campinas (Unicamp), Brazil
03/2010 – 12/2013	Biotechnology , Federal University of São Carlos (UFSCar), Brazil

Work History:

03/2024 – Present	Toxicologist , Affygility Solutions
04/2022 – 03/2024	Associate Toxicologist , Affygility Solutions <ul style="list-style-type: none">• Perform and review health-based exposure limits (ADE/PDE/OEL) reports for active pharmaceutical ingredients and other substances.
05/2021 – 03/2022	Product Safety Assessor , Natura Cosmetics, Cajamar – SP, Brazil <ul style="list-style-type: none">• Safety assessor (toxicology and e-fate) of ingredients for cosmetic products in Natura & Co, mainly involved with biodegradability assessment.• Critical evaluation of scientific literature and information on databases.• Meeting with members of Natura & Co companies.• Project organization, budget control, hiring of tests, results analysis.

- 07/2018 – 05/2021 **R&D Specialist**, Brazilian Biosciences National Laboratory (LNBio/CNPEN),
Campinas – SP, Brazil
- Involved in different projects of basic research and R&D and innovation in dermocosmetics, coagulation, diabetes, and metabolism.
 - Constant search and critical analysis of articles in scientific literature.
 - Main laboratory activities involved pre-clinical assays of cytotoxicity and biological dermo-cosmetic efficacy; 2D and 3D cell culture; alternative methods for experimental animals; protein expression and characterization.
- 03/2017 – 03/2018 **Visiting Researcher**, Center of Integrative Genomics (CIG), Université de Lausanne,
Lausanne, Switzerland
- Working on a project in skin health and repair, with human keratinocytes cell culture and animal models of wound healing.
- 02/2016 – 07/2016 **Teaching Assistant**, State University of Campinas (Unicamp), Brazil
- Teaching Assistant (with a scholarship) of Basic Genetics classes for +40 second-year students of Pharmacy, offering exercise lists for guided study, question & answer sessions, and a Molecular Biology Lecture.
- 03/2014 – 07/2018 **PhD Student**, Brazilian Biosciences National Laboratory (LNBio/CNPEN), Brazil
- Supervised by Dr Ana Carolina Migliorini Figueira at Spectroscopy and Calorimetry Laboratory at Brazilian National Laboratory of Bioscience (LNBio).
 - Recipient of a FAPESP Doctorate Fellowship in Brazil and a BEPE-FAPESP Fellowship for an international research internship in the Center for Integrative Genomics at the University of Lausanne in Switzerland.
 - Developed a medium-throughput screening for in vitro screening of drug candidates for a biological target.
 - Joined 2 collaborations projects, resulting in 2 published papers.
 - Organized, as part of a 5-person team, a 4-day symposium for 42 undergraduate and graduate students on pharmaceutical and health technologies and innovations, with an improvement of the participants' attendance in comparison with the last event (2015).

- Teaching and training of lab technicians, masters, and undergraduate students.
- Managing budgets skills acquired with purchasing, inventory, and organization of laboratory supplies.

07/2013 – 02/2014

Undergraduate Research Assistant, Brazilian Biosciences National Laboratory (LNBio/CNPEM), Brazil

- Supervised by Dr Ana Carolina Migliorini Figueira at Spectroscopy and Calorimetry Laboratory at Brazilian National Laboratory of Bioscience (LNBio).
- Recipient of an Undergraduate Fellowship by CNPq (ITI- B) for training in cell culture and protein expression and purification.
- Worked with a multidisciplinary team of researchers from different levels in a multiuser open laboratory.
- Skills: protein expression and purification; biophysics characterization of proteins (circular dichroism, dynamic light scattering, thermal shift assay); cell culture; gene reporter assays).

01/2012 – 06/2013

Undergraduate Research Assistant, Federal University of São Carlos (UFSCar), Brazil

- Supervised by Prof. Dra Heloísa Selistre Sobreiro de Araújo at Biochemistry and Molecular Biology Laboratory.
- Evaluation of a drug candidate on human endothelial cells (HMEC-1) for a project on cancer treatment.
- Presented the results in poster format for 2 conferences (1 international), and for the bachelor monograph exam (oral presentation and thesis).

04/2010 – 12/2011

Undergraduate Research Assistant, Federal University of São Carlos (UFSCar), Brazil

- Supervised by Prof. Dr. Flávio Henrique da Silva at Molecular Biology Laboratory.
- Recipient of an undergraduate fellowship by FUNDUNESP/BNDES to perform metagenomics analyses of a sugarcane fermentation bioreactor in a collaboration project between an academic laboratory and an ethanol plant.

Training and Courses:

- 2026 **Continued Education in Regulatory Toxicology (Module 2)** (4 hours) – SBTox (Brazil)
- 2026 **Technical Immersion: Toxicology Regulatory and One Health** (4 hours) – CDPI Pharma (virtual)
- 2025 **Continued Education in Regulatory Toxicology** (4 hours) – SBTox (Brazil)
- 2025 **5th Annual Extractables & Leachables Summit** – Uventia (virtual)
- 2024 **Cleaning Validation – Risk Management applying PDE and Analytical Validation concepts** (16 hours) – CPDI Pharma (Brazil)
- 2024 **Brazilian Toxicology Conference (SBtox)** – SBTox (Brazil)
- 2024 **Regulatory Toxicology Applied to Agrochemicals** (8 hours) – SBTox (Brazil)
- 2023 **Pharmaceutical Industry and Regulators Symposium** – Lhasa (Brazil)
- 2022 **2nd Annual Genotoxic Impurities Summit: Nitrosamines & Beyond** – Uventia (virtual)
- 2022 **Workshop on Computational Toxicology Tools** – OTR meeting (USA)
- 2022 **Occupational Toxicology Roundtable (OTR)** – (USA)
- 2022 **Summer School on Innovative Approaches in Science** – ASCCTOX (virtual)
- 2020 **Safety in Laboratories: Environmental and Occupational Aspects (60h)** – UNIFESP (Brazil)
- 2020 **Introduction to the Management of Innovation in Biodiversity Medicines (60h)** – FIOCRUZ (Brazil)
- 2020 **Skin permeation in vitro, ex vivo, in vivo, in silico: chemical aspects (4h)** – Brazilian Association of Cosmetology, ABC (Brazil)
- 2018 **Innovative in vitro methods for the assessment of dermal sensitization (40h)** – RENAMA/UFG (Brazil)
- 2018 **In vitro skin irritation assay according to TG OECD 439 (16h)** – EPISKIN Academy (Brazil)
- 2016 **Bioinformatics Summer School** – EMBL-EBI (UK)

Presentations:

Videira, N.B. Alternative methods to experimental animals (Tecnologia alternativas ao uso de animais de experimentação) Oral presentation. Scientif Imersão Científica. July 25, 2023, Virtual. Brazil.

Videira, N.B. Show and Tell: Occupational Exposure Limits (OEL) Derivation for Classical Psychedelic Drugs. Oral Presentation. Occupational Toxicology Roundtable Event. September 20, 2022, Colorado Springs, USA

Videira, N.B. How to work with biosafety conducting research with the new coronavirus? (Como trabalhar com biossegurança realizando pesquisas com o novo coronavírus?) Oral presentation. ConBios – _1st Online Congress of Biosafety Update and Awareness. August 26-28, 2020, Virtual, Brazil

Videira, N.B. Cellular and biophysical pipeline for Peroxisome Proliferator-activated receptor (PPAR) delta agonist screening. Poster presentation. 9th International Conference on Structural Biology. September 18-20, 2017, Zurich, Switzerland

Publications:

PAVLOVIC MD; LAGISZ M; VIDEIRA NB; *et al.*; EVIDENCE-BASED TOXICOLOGY COLLABORATION . Reporting quality of systematic review protocols in environmental and occupational toxicology: a meta-epidemiology study protocol. *Evidence-Based Toxicology*, v. 3, p. 1, 2025.

DE OLIVEIRA VM; *et al.*. Exploring the molecular pathways of the activation process in PPAR γ recurrent bladder cancer mutants. *Journal Of Chemical Physics*, v. 161, p. 161, 2024.

VIDEIRA NB; *et al.*. The changing outlook of psychedelic drugs: The importance of risk assessment and occupational exposure limits. *J Appl Toxicol*. 2023 Aug 30. doi: 10.1002/jat.4533. Epub ahead of print. PMID: 37646119.

DE OLIVEIRA VM; *et al.* pH and the Breast Cancer Recurrent Mutation D538G Affect the Process of Activation of Estrogen Receptor α . *Biochemistry.*, v.61, p.455 - 463, 2022.

VIDEIRA, NB; *et al.* PPAR Modulation Through Posttranslational Modification Control. In: Mostafa Z. Badr. (Org.). *Nuclear Receptors: The Art and Science of Modulator Design and Discovery*. 1ed. Kansas City: Springer, Cham, 2021, v. 1, p. 1-.

VIDEIRA, NB; *et al.* Status of Biotechnological Processes in the Pharmaceutical Industry. In: Gustavo Molina, Vijai Kumar Gupta, Brahma N. Singh, Nicholas Gathergood. (Org.). *Bioprocessing for Biomolecules Production*. 1ed.: John Wiley & Sons, Ltd, 2019, v. , p. 21-45.

CAMPOS JLO; *et al.* Protein Disulfide Isomerase Modulates the Activation of Thyroid Hormone Receptors. *Frontiers in Endocrinology*, v. 9, p. 784, 2019.

RIBEIRO FILHO HV; *et al.* Modulation of nuclear receptor function: Targeting the protein-DNA interface. *Molecular And Cellular Endocrinology*, v. 484, p. 1-14, 2019.

RIBEIRO FILHO HV; *et al.* Screening for PPAR Non-Agonist Ligands Followed by Characterization of a Hit, AM-879, with Additional No-Adipogenic and cdk5-Mediated Phosphorylation Inhibition Properties. *Frontiers in Endocrinology*, v. 9, p. 1, 2018.

VIDEIRA, NB; *et al.*. Cellular and Biophysical Pipeline for the Screening of Peroxisome Proliferator-Activated Receptor Beta/Delta Agonists: Avoiding False Positives. *PPAR Research*, v. 2018, p. 1-14, 2018.

FATTORI J; *et al.* Investigation of Interactions between DNA and Nuclear Receptors: A Review of the Most Used Methods. *Nuclear Receptor Research*, v. 1, p. 1-20, 2014.

EXANDRINO DE ; FIGUEIRA, ANA CAROLINA MIGLIORINI . Investigation of Interactions between DNA and Nuclear Receptors: A Review of the Most Used Methods. *NUCLEAR RECEPTOR RESEARCH*, v. 1, p. 1-20, 2014.



This is to Certify that

NATÁLIA BERNARDI VIDEIRA

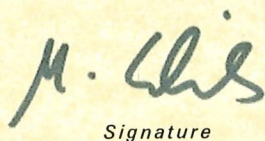
may use the title

ERT

**EUROPEAN
REGISTERED
TOXICOLOGIST**

whilst registered with the
PORTUGUESE

Register of Toxicology


Signature

May 15, 2023
Date

EUROTOX
Basle, SWITZERLAND

APPROVALS

COMPANY: AFFYGILITY SOLUTIONS LLC

ORIGINATOR: Natalia Videira DATE: 2026-05-13

QUALITY Matt Lissese DATE: 2026-05-13

MANAGEMENT Dan Cella DATE: 2026-05-13

EFFECTIVE DATE: 2026-05-13

CERTIFICATE *of* SIGNATURE

REF. NUMBER
LGNG4-9BHMT-GIJCE-AHXGG

DOCUMENT COMPLETED BY ALL PARTIES ON
13 MAY 2026 17:48:22
UTC

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TIMESTAMP

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13 MAY 2026 08:14:29

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DENVER, UNITED STATES

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Natalia Videira

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